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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605221F: KC-X, Next Generation Aerial Refueling Aircraft							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	22.629	15.000	863.875	0.000	863.875	1,146.007	1,189.883	345.599	48.147	Continuing	Continuing
655271: KC-X RDT&E	22.629	15.000	863.875	0.000	863.875	1,146.007	1,189.883	345.599	48.147	Continuing	Continuing

**Note**

The Air Force is preparing for the new source selection competition as a result of the SECDEF's termination of the KC-X competition on 10 Sep 08. The program schedule and the budget request presented in these documents represent a notional KC-X program. Any required restructuring of the funding will occur after contract award to align the dollars with the Defense Acquisition Board (DAB) approved baseline.

The FY05 Appropriations Bill established a \$100M Tanker Replacement Transfer Fund (TRTF). \$10.2M was used by the Air Force in FY05. The FY08 Appropriations Bill reduced \$50M in RDT&E, and moved an additional \$150M of FY08 RDT&E into the TRTF -- \$239.8M remained in the TRTF as of 4Q FY08. The FY09 Appropriations Bill rescinded the entire balance of the TRTF. The FY10 Appropriations Bill reduced \$132.9M in RDT&E, moved \$291.715M of FY10 RDT&E into the TRTF, and left \$15.0M in RDT&E to support program office & source selection activities, and to initiate contract award. The FY11 PB restructures the KC-X budget to account for the fact-of-life delays for the recompetition and planned summer 2010 contract award.

In FY2009, PE 0605221F, KC-X Next Generation Aerial Refueling Aircraft, 5271, KC-X RDT&E, efforts were transferred from PE 0401221F, KC-X Replacement Tanker, 4927, KC-X Replacement Tanker, in order to move funds to Budget Activity (BA) 05 to correctly represent the phase of the KC-X Program.

**A. Mission Description and Budget Item Justification**

To recapitalize the aging KC-135 fleet of aerial refueling aircraft, the Air Force considered data from an Analysis of Alternatives (AoA), along with industry input that was provided in response to both a Request for Information and two draft Requests for Proposal. Based on this information, the Air Force concluded that a strategy of full and open competition to select a commercial derivative replacement tanker aircraft would result in a best value tanker contract. The resulting KC-X source selection culminated in a 29 Feb 08 contract award to Northrop Grumman to develop and produce a tanker based on the A330-200. On 13 Mar 08, the Air Force issued a stop-work order to that contract in response to a protest filed by Boeing. On 18 Jun 08, the GAO sustained portions of that protest. On 10 Sep 08, SECDEF announced termination of the KC-X competition. On 6 Apr 09, SECDEF decided to proceed with a new competition. The FY11 PB restructures the KC-X budget to account for the fact-of-life delays for the recompetition and planned summer 2010 contract award.

The Air Force needs to replace its aging KC-135 tankers, which have an average age of 49 years. Replacement of the legacy fleet will take place in three stages, known as the KC-X, the KC-Y, and the KC-Z. The initial KC-X increment will replace roughly a third of the current capability with the purchase of 179 aircraft. The KC-

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification: PB 2011 Air Force</b>		<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b>	<b>R-1 ITEM NOMENCLATURE</b>				
3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i>	PE 0605221F: <i>KC-X, Next Generation Aerial Refueling Aircraft</i>				
BA 5: <i>Development &amp; Demonstration (SDD)</i>					
X will be able to provide fuel to joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger and medical evacuation capabilities.					
The KC-X will be able to operate in day/night and adverse weather conditions to enable deployment, employment, sustainment and redeployment of U.S. joint, allied and coalition forces. The KC-X will have communication, navigation and surveillance equipment for world-wide operations; will have the capability to perform missions in chemical and biological environments; will have the capability to operate in low-to-medium threat areas and near-high threat areas with self-defense/protection (both active and passive) capabilities; and will have necessary battle space awareness to mitigate survivability threats.					
The KC-X development effort will also procure the necessary ground and flight test assets to support developmental/operational test. The program plans to procure four RDT&E aircraft for integration and demonstration of capability that will ultimately be operationally fielded after a successful operational test phase. In addition, both aircrew and maintenance Training System Requirements Analyses (TSRA) will be conducted to determine training requirements. Aircrew and Maintenance training systems will be developed and procured via a future trainer-specific source selection, using KC-X funding. A Business Case Analysis will also be conducted to determine if the engines for the production aircraft will be Government Furnished or Contractor Furnished. Initial training and sustainment efforts will be provided via Interim Contractor Support (ICS).					
KC-X funding will also support various studies and analyses including the five-nation Future Technology and Aerial Refueling (FTAR) project, and KC-Y/KC-Z planning activities.					
<b>B. Program Change Summary (\$ in Millions)</b>					
	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
Previous President's Budget	23.000	439.615	0.000	0.000	0.000
Current President's Budget	22.629	15.000	863.875	0.000	863.875
Total Adjustments	-0.371	-424.615	863.875	0.000	863.875
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.371	-424.615	863.875	0.000	863.875

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0605221F: KC-X, Next Generation Aerial Refueling Aircraft	
<p><b><u>Change Summary Explanation</u></b></p> <p>The Air Force is preparing for the new source selection competition as a result of the SECDEF's termination of the KC-X competition on 10 Sep 08. The program schedule and the budget request presented in these documents represent a notional KC-X program. Any required restructuring of the funding will occur after contract award to align the dollars with the Defense Acquisition Board (DAB) approved baseline.</p> <p>The FY05 Appropriations Bill established a \$100M Tanker Replacement Transfer Fund (TRTF). \$10.2M was used by the Air Force in FY05. The FY08 Appropriations Bill reduced \$50M in RDT&amp;E, and moved an additional \$150M of FY08 RDT&amp;E into the TRTF -- \$239.8M remained in the TRTF as of 4Q FY08. The FY09 Appropriations Bill rescinded the entire balance of the TRTF. The FY10 Appropriations Bill reduced \$132.9M in RDT&amp;E, moved \$291.715M of FY10 RDT&amp;E into the TRTF, and left \$15.0M in RDT&amp;E to support program office &amp; source selection activities, and to initiate contract award. The FY11 PB restructures the KC-X budget to account for the fact-of-life delays for the recompetition and planned summer 2010 contract award.</p> <p>In FY2009, PE 0605221F, KC-X Next Generation Aerial Refueling Aircraft, 5271, KC-X RDT&amp;E, efforts were transferred from PE 0401221F, KC-X Replacement Tanker, 4927, KC-X Replacement Tanker, in order to move funds to Budget Activity (BA) 05 to correctly represent the phase of the KC-X Program.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0605221F: KC-X, Next Generation Aerial Refueling Aircraft				PROJECT 655271: KC-X RDT&E			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
655271: KC-X RDT&E	22.629	15.000	863.875	0.000	863.875	1,146.007	1,189.883	345.599	48.147	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**

The Air Force is preparing for the new source selection competition as a result of the SECDEF's termination of the KC-X competition on 10 Sep 08. The program schedule and the budget request presented in these documents represent a notional KC-X program. Any required restructuring of the funding will occur after contract award to align the dollars with the Defense Acquisition Board (DAB) approved baseline.

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**A. Mission Description and Budget Item Justification**

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The Air Force needs to replace its aging KC-135 tankers, which have an average age of 49 years. Replacement of the legacy fleet will take place in three stages, known as the KC-X, the KC-Y, and the KC-Z. The initial KC-X increment will replace roughly a third of the current capability with the purchase of 179 aircraft. The KC-

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force				DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0605221F: KC-X, Next Generation Aerial Refueling Aircraft		PROJECT 655271: KC-X RDT&E				
X will be able to provide fuel to joint and coalition receivers via a boom or drogue system on every mission and will also augment the airlift fleet with cargo, passenger and medical evacuation capabilities.								
The KC-X will be able to operate in day/night and adverse weather conditions to enable deployment, employment, sustainment and redeployment of U.S. joint, allied and coalition forces. The KC-X will have communication, navigation and surveillance equipment for world-wide operations; will have the capability to perform missions in chemical and biological environments; will have the capability to operate in low-to-medium threat areas and near-high threat areas with self-defense/protection (both active and passive) capabilities; and will have necessary battle space awareness to mitigate survivability threats.								
The KC-X development effort will also procure the necessary ground and flight test assets to support developmental/operational test. The program plans to procure four RDT&E aircraft for integration and demonstration of capability that will ultimately be operationally fielded after a successful operational test phase. In addition, both aircrew and maintenance Training System Requirements Analyses (TSRA) will be conducted to determine training requirements. Aircrew and Maintenance training systems will be developed and procured via a future trainer-specific source selection, using KC-X funding. A Business Case Analysis will also be conducted to determine if the engines for the production aircraft will be Government Furnished or Contractor Furnished. Initial training and sustainment efforts will be provided via Interim Contractor Support (ICS).								
KC-X funding will also support various studies and analyses including the five-nation Future Technology and Aerial Refueling (FTAR) project, and KC-Y/KC-Z planning activities.								
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: To begin recapitalizing the aging KC-135 fleet				22.629	15.000	863.875	0.000	863.875
FY 2009 Accomplishments: In FY2009: Program office began contract termination activities with Northrop Grumman KC-45. Began documentation and preparation of new contract solicitation for KC-X per SECDEF 8 Jul 09 decision to proceed with new competition. Began Aircraft and Maintenance Training System Requirement Analyses to determine training requirements.								

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2010 Plans: In FY2010: Continuing documentation and preparation of new contract solicitation for KC-X -- contract award planned for summer of 2010. After contract award, program office will begin the Engineering and Manufacturing Design (EMD) phase which includes purchase of EMD aircraft for development, integration, and demonstration of capability. Continuing Aircrew and Maintenance Training System Requirement Analyses. Begin solicitation for KC-X aircrew training and maintenance systems. Begin planning for developmental testing and evaluation. Continuing program office mission support and studies & analyses. The Tanker Replacement Transfer Fund (TRTF) will be used as required in 2010 and beyond.											
FY 2011 Base Plans: In FY2011: Continues KC-X tanker EMD activities. Awards KC-X aircrew training and maintenance systems development contracts. Continues test and evaluation efforts. Continuing program office mission support and studies & analyses.											
FY 2011 OCO Plans: In FY2011 OCO: N/A											
Accomplishments/Planned Programs Subtotals						22.629	15.000	863.875	0.000	863.875	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0605221F: KC-X Aircraft Procurement, BP10	0.000	0.000	0.000	0.000	0.000	0.000	1,582.962	3,213.361	3,265.010	0.000	0.000
• PE 0605221F (1): KC-X MILCON	0.000	0.000	0.000	0.000	0.000	83.989	156.000	69.000	218.000	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force										<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605221F: <i>KC-X, Next Generation Aerial Refueling Aircraft</i>				<b>PROJECT</b> 655271: <i>KC-X RDT&amp;E</i>				
<b><u>C. Other Program Funding Summary (\$ in Millions)</u></b>												
	<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
•	PE 0605221F (2): <i>KC-X O &amp; M</i>	0.873	0.473	2.721	0.000	2.721	13.984	16.341	16.655	17.012	0.000	0.000
<b><u>D. Acquisition Strategy</u></b>												
<p>The Air Force is preparing for a new source selection competition as a result of the SECDEF's termination of the KC-X competition on 10 Sep 08. Draft RFP released on 25 Sep 09. The program schedule and budget request presented in these documents represent a notional KC-X program. Any required restructuring of the funding will occur after contract award to align the dollars with the Defense Acquisition Board (DAB) approved baseline. The Tanker Replacement Transfer Fund (TRTF) will be used as required in 2010 and beyond.</p> <p>The Air Force needs to replace its aging KC-135 tankers, which have an average age of 49 years. Replacement of the legacy fleet will take place in three stages, known as the KC-X, the KC-Y, and the KC-Z. The initial KC-X increment will replace roughly a third of the current capability with the purchase of 179 aircraft.</p>												
<b><u>E. Performance Metrics</u></b>												
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				<b>R-1 ITEM NOMENCLATURE</b> PE 0605221F: KC-X, Next Generation Aerial Refueling Aircraft				<b>PROJECT</b> 655271: KC-X RDT&E					
<b>Product Development (\$ in Millions)</b>													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Non-recurring, RDT&E tanker aircraft and support	TBD/FP	Aerospace Manufacturer TBD	0.000	2.000		810.412		0.000		810.412	Continuing	Continuing	0.000
<b>Subtotal</b>			0.000	2.000		810.412		0.000		810.412			0.000
<b>Remarks</b>													
<b>Support (\$ in Millions)</b>													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Studies and Analysis	Various	Various Various	2.000	1.000		1.800		0.000		1.800	Continuing	Continuing	0.000
<b>Subtotal</b>			2.000	1.000		1.800		0.000		1.800			0.000
<b>Remarks</b>													

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Air Force</b>											<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0605221F: <i>KC-X, Next Generation Aerial Refueling Aircraft</i>				<b>PROJECT</b> 655271: <i>KC-X RDT&amp;E</i>					
<b>Test and Evaluation (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Test & Planning	Various	Various Various	0.138	0.161		15.500		0.000		15.500	Continuing	Continuing	0.000
<b>Subtotal</b>			0.138	0.161		15.500		0.000		15.500			0.000
<b>Remarks</b>													
<b>Management Services (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Office Support	Various	KC-X Program Office Wright Patterson AFB, OH	20.491	11.319		21.013		0.000		21.013	Continuing	Continuing	0.000
Trainer Development	TBD/TBD	Trainer Manufacturer TBD	0.000	0.520		15.150		0.000		15.150	0.000	15.670	0.000
<b>Subtotal</b>			20.491	11.839		36.163		0.000		36.163			0.000
<b>Remarks</b>													

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2011 Air Force							<b>DATE:</b> February 2010				
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	<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	22.629	15.000		863.875		0.000		863.875			0.000
<b>Remarks</b> Total Prior Years Cost may include only FY 2009 data.											

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 5: Development & Demonstration (SDD)

**R-1 ITEM NOMENCLATURE**

PE 0605221F: KC-X, Next Generation Aerial  
Refueling Aircraft

**PROJECT**

655271: KC-X RDT&E

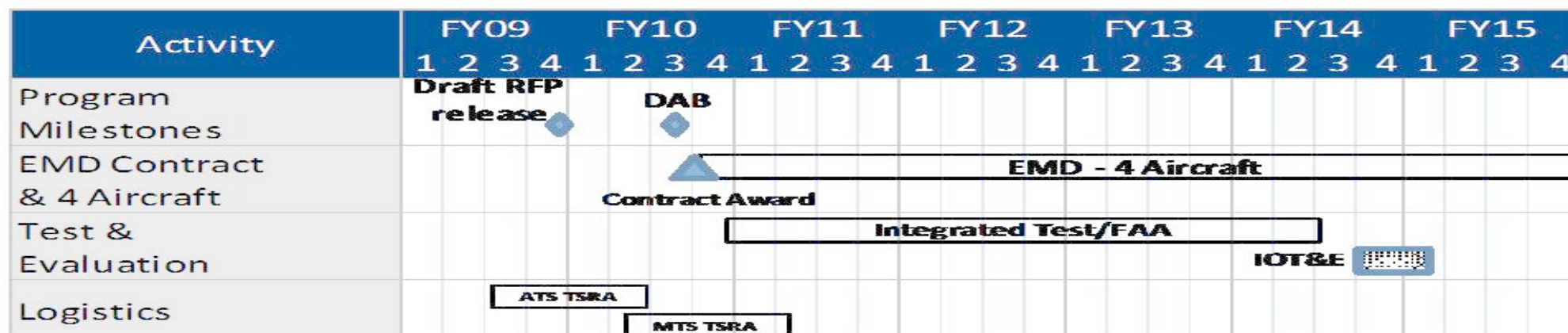


U.S. AIR FORCE

# KC-X Notional Schedule



*Dominant Air Power: Design For Tomorrow... Deliver Today*



RFP - Request for Proposal  
EMD - Engineering Manufacturing and Development  
IOT&E - Initial Operational Test & Evaluation  
MTS - Maintenance Training System

DAB - Defense Acquisition Board  
FAA - Federal Aviation Agency  
ATS - Aircrew Training System  
TSRA - Training Systems Requirement Analysis

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Air Force			<b>DATE:</b> February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0605221F: <i>KC-X, Next Generation Aerial Refueling Aircraft</i>	<b>PROJECT</b> 655271: <i>KC-X RDT&amp;E</i>	

**Schedule Details**

<b>Event</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
Product Development: Non recurring, RDT&E tanker aircraft and support	3	2010	4	2011
Trainer Development:	2	2010	4	2011
Test & Evaluation: Test & Planning	1	2009	4	2011
Support: Studies and Analysis	1	2009	4	2011
Management: Program Office Support	1	2009	4	2011

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